



## SEQUENCE LISTING

<110> HANSEN, BO  
 THRUE, CHARLOTTE ALBAEK  
 WESTERGAARD, MAJKEN  
 PETERSEN, KAMILLE DUMONG  
 WISSENBACH, MARGIT

<120> OLIGOMERIC COMPOUNDS FOR THE MODULATION OF SURVIVIN EXPRESSION

<130> 58610(71432)

<140> 10/776,934

<141> 2004-02-10

<150> 60/446,372

<151> 2003-02-10

<150> 60/523,591

<151> 2003-11-19

<160> 741

<170> PatentIn version 3.2

<210> 1

<211> 1619

<212> DNA

<213> Homo sapiens

<400> 1

ccgccagatt tgaatcgcg gacccggttg cagaggtggc ggcggcgcca tgggtgcccc	60
gacgttgccc cctgcctggc agccctttct caaggaccac cgcctctcta cattcaagaa	120
ctggcccttc ttggagggtc gcgcctgcac cccggagcgg atggccgagg ctggcttcat	180
ccactgcccc actgagaacg agccagaact ggcccagtgt ttcttctgct tcaaggagct	240
ggaaggctgg gagccagatg acgaccccat agaggaacat aaaaagcatt cgtccggttg	300
cgttttcctt tctgtcaaga agcagtttga agaattaacc cttggtgaat ttttgaaact	360
ggacagagaa agagccaaga acaaaattgc aaaggaaacc aacaataaga agaaagaatt	420
tgaggaaact gcgaagaaag tgcgccgtgc catcgagcag ctggctgcca tggattgagg	480
cctctggccg gagctgcctg gtcccagagt ggctgcacca cttccagggt ttattccctg	540
gtgccaccag ccttcctgtg ggccccttag caatgtetta ggaaaggaga tcaacatttt	600
caaattagat gtttcaactg tgctcctgtt ttgtcttgaa agtggcacca gaggtgcttc	660
tgctgtgca gcggtgtgtg ctggtaacag tggtgcttc tctctctctc tctctttttt	720
gggggctcat ttttctgtt ttgattcccg ggcttaccag gtgagaagtg agggaggaag	780

```

aaggcagtgt cccttttgct agagctgaca gctttgttcg cgtgggcaga gccttcaca 840
gtgaatgtgt ctggacctca tgttggtgag gctgtcacag tcctgagtgt ggacttggca 900
ggtgcctggt gaatctgagc tgcaggttcc ttatctgtca cacctgtgcc tcctcagagg 960
acagtttttt tgttggtgtg tttttttggt tttttttttt ggtagatgca tgacttgtgt 1020
gtgatgagag aatggagaca gagtccctgg ctccctctact gtttaacaac atggctttct 1080
tattttgttt gaattgttaa ttcacagaat agcacaaact acaattaaaa ctaagcacia 1140
agccattcta agtcattggg gaaacggggg gaacttcagg tggatgagga gacagaatag 1200
agtgatagga agcgtctggc agatactcct ttggccactg ctgtgtgatt agacaggccc 1260
agtgagccgc ggggcacatg ctggccgctc ctccctcaga aaaaggcagt ggcctaaatc 1320
ctttttaaat gacttggtc gatgctgtgg gggactggct gggctgctgc aggccgtgtg 1380
tctgtcagcc caaccttcac atctgtcacg ttctccacac gggggagaga cgcagtccgc 1440
ccaggcccc gctttctttg gaggcagcag ctcccgagg gctgaagtct ggcgtaagat 1500
gatggatttg attcgccctc ctccctgtca tagagctgca ggggtggattg ttacagcttc 1560
gctggaaacc tctggaggtc atctcggctg ttcttgagaa ataaaaagcc tgtcatttc 1619

```

<210> 2

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 2

gcagtggatg aagcca

16

<210> 3

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 3

gccaagtctg gctcgt

16

<210> 4

<211> 16

<212> DNA

<213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 4  
 aacactgggc caagtc 16

<210> 5  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 5  
 gcagaagaaa cactgg 16

<210> 6  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 6  
 aagcagaaga aacact 16

<210> 7  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 7  
 ctcccagcct tccagc 16

<210> 8  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 8  
 ttctttcttc ttattg 16

<210> 9  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 9  
 tgggaccagg cagctc 16

<210> 10  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 10  
 tgggtgcagcc actctg 16

<210> 11  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 11  
 gaataaacc tggaag 16

<210> 12  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 12  
 tggcaccagg gaataa 16

<210> 13  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide



<400> 13  
 ctaagacatt gctaag 16

<210> 14  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 14  
 ttgatctcct ttccta 16

<210> 15  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 15  
 gcacagttga aacatc 16

<210> 16  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 16  
 gattcaaatc tggcgg 16

<210> 17  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 17  
 tgccaacggg tcccgc 16

<210> 18  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 18  
 ccgccgccgc cacctc 16

<210> 19  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 19  
 cgtcggggca cccatg 16

<210> 20  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 20  
 gccaggcagg gggcaa 16

<210> 21  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 21  
 tccttgagaa agggct 16

<210> 22  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 22  
 tgtagagatg cggtgg 16

<210> 23  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 23  
 agggccagtt cttgaa 16

<210> 24  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 24  
 gcgcagccct ccaaga 16

<210> 25  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 25  
 ccgctccggg gtgcag 16

<210> 26  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 26  
 agccagcctc ggccat 16

<210> 27  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 27  
 gtggggcagt ggatga 16

<210> 28  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 28  
 gtctggctcg ttctca 16

<210> 29  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 29  
 agaaacactg ggccaa 16

<210> 30  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 30  
 agctccttga agcaga 16

<210> 31  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 31  
 tggctcccag ccttcc 16

<210> 32  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide

<400> 32  
 ctatggggtc gtcac 16

<210> 33  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 33  
 tgctttttat gttcct 16

<210> 34  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 34  
 agcgcaaccg gacgaa 16

<210> 35  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 35  
 tcttgacaga aaggaa 16

<210> 36  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 36  
 aattcttcaa actgct 16

<210> 37  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 37  
 aaattcacca aggggtt 16

<210> 38  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 38  
 ctctgtccag tttcaa 16

<210> 39  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 39  
 ttgttcttgg ctcttt 16

<210> 40  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 40  
 ggtttccttt gcaatt 16

<210> 41  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 41  
 ctttcttctt attggt 16

<210> 42  
 <211> 16

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 42  
 gcagtttcct caaatt 16

<210> 43  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 43  
 acggcgact ttcttc 16

<210> 44  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 44  
 ccagctgctc gatggc 16

<210> 45  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 45  
 cctcaatcca tggcag 16

<210> 46  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <400> 46  
 cagctccggc cagagg 16

<210> 47  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 47  
 ccactctggg accagg 16

<210> 48  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 48  
 cctggaagtg gtgcag 16

<210> 49  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 49  
 gcaccagggg ataaac 16

<210> 50  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 50  
 cacaggaagg ctggtg 16

<210> 51  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide



<400> 51  
acattgctaa ggggcc 16

<210> 52  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 52  
gatctccttt cctaag 16

<210> 53  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 53  
ctaatttgaa aatgtt 16

<210> 54  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 54  
agcacagttg aaacat 16

<210> 55  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 55  
ttcaagacaa aacagg 16

<210> 56  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 56  
 cacctctggt gccact 16

<210> 57  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 57  
 gctgcacagg cagaag 16

<210> 58  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 58  
 gttaccagca gcaccc 16

<210> 59  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 59  
 gagagaagca gccact 16

<210> 60  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 60  
 aaaaaagaga gagaga 16

<210> 61  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 61  
 gcaaaaatga gcccc

16

<210> 62  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 62  
 cccgggaatc aaaaca

16

<210> 63  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 63  
 cttctcacct ggtaag

16

<210> 64  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 64  
 ccttcttcct ccctca

16

<210> 65  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 65  
agcaaaaggg acactg

16

<210> 66  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 66  
caaagctgtc agctct

16

<210> 67  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 67  
gctctgcccc cgcgaa

16

<210> 68  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 68  
acattcactg tggaag

16

<210> 69  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 69  
aacatgaggt ccagac

16

<210> 70  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 70  
ctgtgacagc ctcaac

16

<210> 71  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 71  
aagtccacac tcagga

16

<210> 72  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 72  
tcaacaggca cctgcc

16

<210> 73  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 73  
aacctgcagc tcagat

16

<210> 74  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 74  
ggtgtgacag ataagg

16

<210> 75  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 75  
 cctctgagga ggcaca

16

<210> 76  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 76  
 acaacaaaaa aactgt

16

<210> 77  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 77  
 aaaacaaaaa aacaca

16

<210> 78  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 78  
 catctaccaa aaaaaa

16

<210> 79  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 79

tcacacacaa gtcatg

16

<210> 80  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 80  
 tgtctccatt ctctca

16

<210> 81  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 81  
 gaggagccag ggactc

16

<210> 82  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 82  
 atgttggttaa acagta

16

<210> 83  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 83  
 acaaaataag aaagcc

16

<210> 84  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 84

tgaattaaca attcaa

16

<210> 85

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 85

agtttgtgct attctg

16

<210> 86

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 86

gcttagtttt aattgt

16

<210> 87

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 87

cttagaatgg ctttgt

16

<210> 88

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 88

cccgtttccc caatga

16

<210> 89

<211> 16



<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 89  
 tccacctgaa gttcac 16

<210> 90  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 90  
 ctattctgtc tcctca 16

<210> 91  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 91  
 gacgcttcct atcact 16

<210> 92  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 92  
 aaaggagtat ctgcca 16

<210> 93  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 93  
 tcacacagca gtggca 16

<210> 94  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 94  
 cactgggcct gtctaa

16

<210> 95  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 95  
 catgtgcccc gcggct

16

<210> 96  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 96  
 agggaggagc ggccag

16

<210> 97  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 97  
 ccactgcctt tttctg

16

<210> 98  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 98  
 ttaaaaagga tttagg 16

<210> 99  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 99  
 catcgagcca agtcat 16

<210> 100  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 100  
 agccagtccc ccacag 16

<210> 101  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 101  
 cggcctgcag cagccc 16

<210> 102  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 102  
 tgggctgaca gacaca 16

<210> 103  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 103  
 tgacagatgt gaaggt 16

<210> 104  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 104  
 ccccggtgtgg agaacg 16

<210> 105  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 105  
 gcggactgcg tctctc 16

<210> 106  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 106  
 gaaagcgggg acctgg 16

<210> 107  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 107  
 agctgctgcc tccaaa 16

<210> 108  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 108  
 acttcagccc tgcggg

16

<210> 109  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 109  
 catcatctta cgccag

16

<210> 110  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 110  
 gagggcgaat caaatc

16

<210> 111  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 111  
 gctctatgac agggag

16

<210> 112  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 112  
aacaatccac cctgca 16

<210> 113  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 113  
tttccagcga agctgt 16

<210> 114  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 114  
agatgacctc cagagg 16

<210> 115  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 115  
ttctcaggaa cagccg 16

<210> 116  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 116  
atgacaggct ttttat 16

<210> 117  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 117  
 aggcaggggg caacgt 16

<210> 118  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 118  
 ccaagaaggg ccagtt 16

<210> 119  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 119  
 tggctcggtc tcagtg 16

<210> 120  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 120  
 gtctggctcg ttctca 16

<210> 121  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <400> 121  
 agtctggctc gttctc 16

<210> 122  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 122  
 tggatgaagc cagcct 16

<210> 123  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 123  
 agcagaagaa aactg 16

<210> 124  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 124  
 tcctctatgg ggtcgt 16

<210> 125  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 125  
 gcaaccggac gaatgc 16

<210> 126  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 126  
 ttatgttcct ctagg 16



<210> 127  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 127  
 ggttaattct tcaaac

16

<210> 128  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 128  
 ctctgtccag tttcaa

16

<210> 129  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 129  
 gcaattttgt tcttgg

16

<210> 130  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 130  
 ctcaatccat ggcagc

16

<210> 131  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 131  
ccagcctcgg ccatcc 16

<210> 132  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 132  
tgtccagttt caaaaa 16

<210> 133  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 133  
ctgtccagtt tcaaaa 16

<210> 134  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 134  
tcggggcacc catgcc 16

<210> 135  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<400> 135  
atggcagcca gctgct 16

<210> 136  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 136  
 agaggcctca atccat

16

<210> 137  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 137  
 gggcaacgtc ggggca

16

<210> 138  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 138  
 tgccaggcag ggggca

16

<210> 139  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 139  
 ccggggtgca ggcgca

16

<210> 140  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 140  
 catccgctcc ggggtg

16

<210> 141  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 141  
 gtggggcagt ggatga 16

<210> 142  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 142  
 cctctatggg gtcgtc 16

<210> 143  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 143  
 atgcttttta tgttcc 16

<210> 144  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 144  
 gtttcctttg caattt 16

<210> 145  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<400> 145  
tgtgctattc tgtgaatt

18

<210> 146

<400> 146  
000

<210> 147  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 147  
gcagtggatg aagcca

16

<210> 148  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 148  
 gcagtggatg aagcca

16

<210> 149  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 149  
 gcagtggatg aagcca

16

<210> 150  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 150  
 gcagtggatg aagcca

16

<210> 151  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 151
gccaaagtctg gctcgt

```

16

```

<210> 152
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 152
gccaaagtctg gctcgt

```

16

```

<210> 153
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 153  
 gcccaagtctg gctcgt

16

<210> 154  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 154  
 gcccaagtctg gctcgt

16

<210> 155  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature



<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 155  
 aacactgggc caagtc

16

<210> 156  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 156  
 aacactgggc caagtc

16

<210> 157  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 157  
aacactgggc caagtc

16

<210> 158  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 158  
aacactgggc caagtc

16

<210> 159  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 159  
gcagaagaaa cactgg

16

<210> 160  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 160  
 gcagaagaaa cactgg

16

<210> 161  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 161  
 gcagaagaaa cactgg

16

<210> 162  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)

<223> phosphorthioate linkage

<400> 162

gcagaagaaa cactgg

16

<210> 163

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified\_base

<222> (1)..(4)

<223> beta-D-oxy-LNA modified base

<220>

<221> modified\_base

<222> (13)..(16)

<223> beta-D-oxy-LNA modified base

<220>

<221> misc\_feature

<222> (1)..(16)

<223> phosphorthioate linkage

<400> 163

aagcagaaga aacact

16

<210> 164

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified\_base

<222> (1)..(4)

<223> beta-D-oxy-LNA modified base

<220>

<221> modified\_base

<222> (13)..(15)

<223> beta-D-oxy-LNA modified base

<220>

<221> misc\_feature

<222> (1)..(16)

<223> phosphorthioate linkage

<400> 164  
aagcagaaga aacact

16

<210> 165  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 165  
aagcagaaga aacact

16

<210> 166  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 166  
aagcagaaga aacact

16

<210> 167  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>

<221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 167  
 ctcccagcct tccagc

16

<210> 168  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 168  
 ctcccagcct tccagc

16

<210> 169  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 169  
 ctcccagcct tccagc

16

<210> 170  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 170  
 ctcccagcct tccagc

16

<210> 171  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 171  
 ttctttcttc ttattg

16

```

<210> 172
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 172
ttctttcttc ttattg

```

16

```

<210> 173
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 173
ttctttcttc ttattg

```

16



<210> 174  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 174  
 ttctttcttc ttattg

16

<210> 175  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 175  
 tgggaccagg cagctc

16

<210> 176  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 176  
 tgggaccagg cagctc

16

<210> 177  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 177  
 tgggaccagg cagctc

16

<210> 178  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 178  
 ttctttcttc ttattg

16

```

<210> 179
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 179
tggtgcagcc actctg

```

16

```

<210> 180
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 180
tggtgcagcc actctg

```

16

```

<210> 181
<211> 16

```

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 181  
 tgggtgcagcc actctg

16

<210> 182  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 182  
 tgggtgcagcc actctg

16

<210> 183  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 183  
 gaataaacc tggaag

16

<210> 184  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 184  
 gaataaacc tggaag

16

<210> 185  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 185  
 gaataaaccc tggaag

16

<210> 186  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 186  
 gaataaaccc tggaag

16

<210> 187  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 187  
 tggcaccagg gaataa

16

<210> 188  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 188  
 tggcaccagg gaataa

16

<210> 189  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 189  
 tggcaccagg gaataa

16

<210> 190  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 190  
 tggcaccagg gaataa

16

<210> 191  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 191  
 ctaagacatt gctaag

16

<210> 192  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature



<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 192  
 ctaagacatt gctaag

16

<210> 193  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 193  
 ctaagacatt gctaag

16

<210> 194  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 194  
 ctaagacatt gctaag

16

<210> 195  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 195
ttgatctcct ttccta

```

16

```

<210> 196
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 196
ttgatctcct ttccta

```

16

```

<210> 197
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 197  
 ttgatctcct ttccta

16

<210> 198  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 198  
 ttgatctcct ttccta

16

<210> 199  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 199  
 gcacagttga aacatc

16

<210> 200  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 200  
 gcacagttga aacatc

16

<210> 201  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 201  
gcacagttga aacatc

16

<210> 202  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 202  
gcacagttga aacatc

16

<210> 203  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(3)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 203  
gcacagttga aacatc

16

<210> 204  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 204  
 gattcaaadc tggcgg

16

<210> 205  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 205  
 gattcaaadc tggcgg

16

<210> 206  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 206  
 gattcaaadc tggcgg

16

<210> 207  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 207  
 gattcaaadc tggcgg

16

<210> 208  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 208  
tgccaacggg tcccgc

16

<210> 209  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 209  
tgccaacggg tcccgc

16

<210> 210  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage  
  
<400> 210  
tgccaacggg tcccgc

16



<210> 211  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 211  
 tgccaacggg tcccg

16

<210> 212  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 212  
 ccgccgccgc cacctc

16

<210> 213  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 213  
 ccgccgccgc cacctc

16

<210> 214  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 214  
 ccgccgccgc cacctc

16

<210> 215  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 215  
 ccgccgccgc cacctc

16

```

<210> 216
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 216
cgtcggggca cccatg

```

16

```

<210> 217
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 217
cgtcggggca cccatg

```

16

```

<210> 218
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 218
cgtcgggggca cccatg

```

16

```

<210> 219
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 219
cgtcgggggca cccatg

```

16

```

<210> 220
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

```

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 220  
 gccaggcagg gggcaa

16

<210> 221  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 221  
 gccaggcagg gggcaa

16

<210> 222  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 222  
 gccaggcagg gggcaa

16

<210> 223  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 223  
 gccaggcagg gggcaa

16

<210> 224  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 224  
 tccttgagaa agggct

16

```

<210> 225
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 225
tccttgagaa agggct

```

16

```

<210> 226
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 226
tccttgagaa agggct

```

16

```

<210> 227
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 227  
 tccttgagaa agggct

16

<210> 228  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 228  
 tgtagagatg cggtgg

16

<210> 229  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base



<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 229  
 tgtagagatg cggtgg

16

<210> 230  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 230  
 tgtagagatg cggtgg

16

<210> 231  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 231  
 tgtagagatg cggtgg

16

```

<210> 232
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 232
agggccagtt cttgaa

```

16

```

<210> 233
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 233
agggccagtt cttgaa

```

16

```

<210> 234
<211> 16

```

```

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 234
agggccagtt cttgaa

<210> 235
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 235
agggccagtt cttgaa

<210> 236
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base

```

16

16

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 236  
 gcgcagccct ccaaga

16

<210> 237  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 237  
 gcgcagccct ccaaga

16

<210> 238  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 238  
 gcgcagccct ccaaga

16

<210> 239  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 239  
 gcgcagccct ccaaga

16

<210> 240  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 240  
 ccgctccggg gtgcag

16

<210> 241  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 241
ccgctccggg gtgcag

```

16

```

<210> 242
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 242
ccgctccggg gtgcag

```

16

```

<210> 243
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 243  
 ccgctccggg gtgcag

16

<210> 244  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 244  
 agccagcctc ggccat

16

<210> 245  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 245  
 agccagcctc ggccat

16

<210> 246  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 246  
 agccagcctc ggccat

16

<210> 247  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 247  
 agccagcctc ggccat

16

<210> 248  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence



```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 248
gtggggcagt ggatga

```

16

```

<210> 249
<211> 16
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 249
gtggggcagt ggatga

```

16

```

<210> 250
<211> 16
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 250  
 gtggggcagt ggatga

16

<210> 251  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 251  
 gtggggcagt ggatga

16

<210> 252  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 252  
 gtctggctcg ttctca

16

<210> 253  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 253  
 gtctggctcg ttctca

16

<210> 254  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 254  
gtctggctcg ttctca

16

<210> 255  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 255  
gtctggctcg ttctca

16

<210> 256  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 256  
agaaacactg ggccaa

16

<210> 257  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>

<221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 257  
 agaaacactg ggccaa

16

<210> 258  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 258  
 agaaacactg ggccaa

16

<210> 259  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 259  
agaaacactg ggccaa

16

<210> 260  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 260  
agctccttga agcaga

16

<210> 261  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 261  
agctccttga agcaga

16

<210> 262  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 262  
 agctccttga agcaga

16

<210> 263  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 263  
 agctccttga agcaga

16

<210> 264  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)

<223> beta-D-oxy-LNA modified base

<220>

<221> modified\_base

<222> (13)..(16)

<223> beta-D-oxy-LNA modified base

<220>

<221> misc\_feature

<222> (1)..(16)

<223> phosphorthioate linkage

<400> 264

tggtccag ccttcc

16

<210> 265

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified\_base

<222> (1)..(4)

<223> beta-D-oxy-LNA modified base

<220>

<221> modified\_base

<222> (13)..(15)

<223> beta-D-oxy-LNA modified base

<220>

<221> misc\_feature

<222> (1)..(16)

<223> phosphorthioate linkage

<400> 265

tggtccag ccttcc

16

<210> 266

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<220>

<221> modified\_base

<222> (1)..(4)

<223> beta-D-oxy-LNA modified base



<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 266  
 tggctcccag ccttcc

16

<210> 267  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 267  
 tggctcccag ccttcc

16

<210> 268  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 268  
 ctatggggtc gtcac

16

```

<210> 269
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 269
ctatggggtc gtcac

```

16

```

<210> 270
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 270
ctatggggtc gtcac

```

16

```

<210> 271
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 271  
 ctatggggtc gtcac

16

<210> 272  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 272  
 tgctttttat gttcct

16

<210> 273  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 273  
 tgcttttttat gttcct

16

<210> 274  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 274  
 tgcttttttat gttcct

16

<210> 275  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 275  
 tgcttttttat gttcct

16

```

<210> 276
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 276
agcgcaaccg gacgaa

```

16

```

<210> 277
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 277
agcgcaaccg gacgaa

```

16

```

<210> 278
<211> 16

```

```

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 278
agcgcaaccg gacgaa

<210> 279
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 279
agcgcaaccg gacgaa

<210> 280
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base

```

16

16

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 280  
 tcttgacaga aaggaa

16

<210> 281  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 281  
 tcttgacaga aaggaa

16

<210> 282  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 282  
 tcttgacaga aaggaa

16

<210> 283  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 283  
 tcttgacaga aaggaa

16

<210> 284  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 284  
 aattcttcaa actgct

16

<210> 285  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence



```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 285
aattcttcaa actgct

```

16

```

<210> 286
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 286
aattcttcaa actgct

```

16

```

<210> 287
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 287  
 aattcttcaa actgct

16

<210> 288  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 288  
 aaattcacca aggggtt

16

<210> 289  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 289  
 aaattcacca aggggtt

16

<210> 290  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 290  
 aaattcacca aggggtt

16

<210> 291  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 291  
 aaattcacca aggggtt

16

<210> 292  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 292
ctctgtccag tttcaa

```

16

```

<210> 293
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 293
ctctgtccag tttcaa

```

16

```

<210> 294
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 294  
 ctctgtccag tttcaa

16

<210> 295  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 295  
 ctctgtccag tttcaa

16

<210> 296  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 296  
 ttgttcttgg ctcttt

16

<210> 297  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 297  
 ttgttcttgg ctcttt

16

<210> 298  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 298  
ttgttccttggtg ctcttt

16

<210> 299  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 299  
ttgttccttggtg ctcttt

16

<210> 300  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 300  
ggtttccttt gcaatt

16

<210> 301  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 301  
 gggttccttt gcaatt

16

<210> 302  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 302  
 gggttccttt gcaatt

16

<210> 303  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)



<223> phosphorthioate linkage

<400> 303  
ggtttccttt gcaatt

16

<210> 304  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 304  
ctttcttctt attggt

16

<210> 305  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 305  
ctttcttctt attggt

16

<210> 306  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 306  
ctttcttctt attggt

16

<210> 307  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 307  
ctttcttctt attggt

16

<210> 308  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 308  
 gcagtttcct caaatt

16

<210> 309  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 309  
 gcagtttcct caaatt

16

<210> 310  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 310  
 gcagtttcct caaatt

16

<210> 311  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 311  
 gcagtttcct caaatt

16

<210> 312  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 312  
acggcgact ttcttc

16

<210> 313  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 313  
acggcgact ttcttt

16

<210> 314  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 314  
acggcgact ttcttc

16

<210> 315  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 315  
 acggcgact ttcttc

16

<210> 316  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 316  
 ccagctgctc gatggc

16

<210> 317  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 317  
 ccagctgctc gatggt

16

<210> 318  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 318  
 ccagctgctc gatggc

16

<210> 319  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 319  
 ccagctgctc gatggc

16

```

<210> 320
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 320
cctcaatcca tggcag

```

16

```

<210> 321
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 321
cctcaatcca tggcag

```

16



<210> 322  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 322  
 cctcaatcca tggcag

16

<210> 323  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 323  
 cctcaatcca tggcag

16

<210> 324  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 324  
 cagctccggc cagagg

16

<210> 325  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 325  
 cagctccggc cagagg

16

<210> 326  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 326  
 cagctccggc cagagg

16

<210> 327  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 327  
 cagctccggc cagagg

16

<210> 328  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 328  
 ccactctggg accagg

16

```

<210> 329
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 329
ccactctggg accagg

```

16

```

<210> 330
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 330
ccactctggg accagg

```

16

```

<210> 331
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 331  
 ccactctggg accagg

16

<210> 332  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 332  
 cctggaagtg gtgcag

16

<210> 333  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 333  
 cctggaagtg gtgcag

16

<210> 334  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 334  
 cctggaagtg gtgcag

16

<210> 335  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 335  
 cctggaagtg gtgcag

16

```

<210> 336
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 336
gcaccagggga ataaac

```

16

```

<210> 337
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 337
gcaccagggga ataaac

```

16

```

<210> 338
<211> 16

```

<212> DNA  
 <213> Artificial sequence  
 <220>  
 <223> Synthetic oligonucleotide  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 338  
 gcaccaggga ataaac

16

<210> 339  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 339  
 gcaccaggga ataaac

16

<210> 340  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base



<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 340  
 cacaggaagg ctggtg

16

<210> 341  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 341  
 cacaggaagg ctggtg

16

<210> 342  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 342  
 cacaggaagg ctggtg

16

<210> 343  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 343  
 cacaggaagg ctggtg

16

<210> 344  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 344  
 acattgctaa ggggcc

16

<210> 345  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 345
acattgctaa ggggcc

```

16

```

<210> 346
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 346
acattgctaa ggggcc

```

16

```

<210> 347
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 347  
 acattgctaa ggggcc

16

<210> 348  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 348  
 gatctccttt cctaag

16

<210> 349  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage  
 |  
 <400> 349  
 gatctccttt cctaag

16

<210> 350  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 350  
 gatctccttt cctaag

16

<210> 351  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 351  
 gatctccttt cctaag

16

<210> 352  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 352
ctaatttgaa aatggt

```

16

```

<210> 353
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 353
ctaatttgaa aatggt

```

16

```

<210> 354
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 354  
 ctaatttgaa aatgtt

16

<210> 355  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 355  
 ctaatttgaa aatgtt

16

<210> 356  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 356  
 agcacagttg aaacat

16

<210> 357  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 357  
 agcacagttg aaacat

16

<210> 358  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage



<400> 358  
agcacagttg aaacat

16

<210> 359  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 359  
agcacagttg aaacat

16

<210> 360  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 360  
ttcaagacaa aacagg

16

<210> 361  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>

<221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 361  
 ttcaagacaa aacagg

16

<210> 362  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 362  
 ttcaagacaa aacagg

16

<210> 363  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 363  
ttcaagacaa aacagg

16

<210> 364  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 364  
cacctctggt gccact

16

<210> 365  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 365  
cacctctggt gccact

16

<210> 366  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 366  
 cacctctggt gccact

16

<210> 367  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 367  
 cacctctggt gccact

16

<210> 368  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 368  
 gctgcacagg cagaag

16

<210> 369  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 369  
 gctgcacagg cagaag

16

<210> 370  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 370  
 gctgcacagg cagaag

16

<210> 371  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 371  
 gctgcacagg cagaag

16

<210> 372  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 372  
 gttaccagca gcaccc

16

<210> 373  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 373  
 gttaccagca gcaccc

16

<210> 374  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 374  
 gttaccagca gcaccc

16

<210> 375  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 375  
 gttaccagca gcaccc

16

<210> 376  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 376  
 gagagaagca gccact

16

<210> 377  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base



<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 377  
 gagagaagca gccact

16

<210> 378  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 378  
 gagagaagca gccact

16

<210> 379  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 379  
 gagagaagca gccact

16

```

<210> 380
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 380
aaaaaagaga gagaga

```

16

```

<210> 381
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 381
aaaaaagaga gagaga

```

16

```

<210> 382
<211> 16

```

```

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 382
aaaaaagaga gagaga

<210> 383
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 383
aaaaaagaga gagaga

<210> 384
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base

```

16

16

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 384  
 gcaaaaatga gccccc

16

<210> 385  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 385  
 gcaaaaatga gccccc

16

<210> 386  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 386  
 gcaaaaatga gcccc

16

<210> 387  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 387  
 gcaaaaatga gcccc

16

<210> 388  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 388  
 cccggaatc aaaaca

16

<210> 389  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 389
cccgggaatc aaaaca

```

16

```

<210> 390
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 390
cccgggaatc aaaaca

```

16

```

<210> 391
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 391  
 cccgggaatc aaaaca

16

<210> 392  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 392  
 cttctcacct ggtaag

16

<210> 393  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 393  
 cttctcacct ggtaag

16

<210> 394  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 394  
 cttctcacct ggtaag

16

<210> 395  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 395  
 cttctcacct ggtaag

16

<210> 396  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence



```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 396
ccttcttcct ccctca

```

16

```

<210> 397
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 397
ccttcttcct ccctca

```

16

```

<210> 398
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 398  
 ccttcttctt ccctca

16

<210> 399  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 399  
 ccttcttctt ccctca

16

<210> 400  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 400  
 agcaaaaggg acactg

16

<210> 401  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 401  
 agcaaaaggg acactg

16

<210> 402  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 402  
agcaaaaggg acactg

16

<210> 403  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 403  
agcaaaaggg acactg

16

<210> 404  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 404  
caaagctgtc agctct

16

<210> 405  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 405  
 caaagctgtc agctct

16

<210> 406  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 406  
 caaagctgtc agctct

16

<210> 407  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 407  
 caaagctgtc agctct

16

<210> 408  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 408  
 gctctgccca cgcgaa

16

<210> 409  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 409  
gctctgccca cgcgaa

16

<210> 410  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 410  
gctctgccca cgcgaa

16

<210> 411  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 411  
gctctgccca cgcgaa

16

<210> 412  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 412  
 acattcactg tggaag

16

<210> 413  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 413  
 acattcactg tggaag

16

<210> 414  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base



<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 414  
 acattcactg tggaag

16

<210> 415  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 415  
 acattcactg tggaag

16

<210> 416  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 416  
aacatgaggt ccagac

16

<210> 417  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 417  
aacatgaggt ccagac

16

<210> 418  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 418  
aacatgaggt ccagac

16

<210> 419  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 419  
 aacatgaggt ccagac

16

<210> 420  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 420  
 ctgtgacagc ctcaac

16

<210> 421  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 421  
 ctgtgacagc ctcaac

16

<210> 422  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 422  
 ctgtgacagc ctcaac

16

<210> 423  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 423  
 ctgtgacagc ctcaac

16

```

<210> 424
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 424
aagtcacac tcagga

```

16

```

<210> 425
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 425
aagtcacac tcagga

```

16

<210> 426  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 426  
 aagtcacac tcagga

16

<210> 427  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 427  
 aagtcacac tcagga

16

<210> 428  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 428  
 tcaacaggca cctgcc

16

<210> 429  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 429  
 tcaacaggca cctgcc

16

<210> 430  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 430  
 tcaacaggca cctgcc

16

<210> 431  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 431  
 tcaacaggca cctgcc

16

<210> 432  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 432  
 aacctgcagc tcagat

16



<210> 433  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 433  
 aacctgcagc tcagat

16

<210> 434  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 434  
 aacctgcagc tcagat

16

<210> 435  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 435  
 aacctgcagc tcagat

16

<210> 436  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 436  
 ggtgtgacag ataagg

16

<210> 437  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 437  
 ggtgtgacag ataagg

16

<210> 438  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 438  
 ggtgtgacag ataagg

16

<210> 439  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 439  
 ggtgtgacag ataagg

16

<210> 440  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 440  
 cctctgagga ggcaca

16

<210> 441  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 441  
 cctctgagga ggcaca

16

<210> 442  
 <211> 16

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 442  
 cctctgagga ggcaca

16

<210> 443  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 443  
 cctctgagga ggcaca

16

<210> 444  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 444  
 acaacaaaaa aactgt

16

<210> 445  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 445  
 acaacaaaaa aactgt

16

<210> 446  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 446  
 acaacaaaaa aactgt

16

<210> 447  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 447  
 acaacaaaaa aactgt

16

<210> 448  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 448  
 aaaacaaaaa aacaca

16

<210> 449  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 449
aaaacaaaaa aacaca

```

16

```

<210> 450
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 450
aaaacaaaaa aacaca

```

16

```

<210> 451
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```



<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 451  
 aaaacaaaaa aacaca

16

<210> 452  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 452  
 catctaccaa aaaaaa

16

<210> 453  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 453  
 catctaccaa aaaaaa

16

<210> 454  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 454  
 catctaccaa aaaaaa

16

<210> 455  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 455  
 catctaccaa aaaaaa

16

<210> 456  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 456  
 tcacacacaa gtcatg

16

<210> 457  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 457  
 tcacacacaa gtcatg

16

<210> 458  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 458  
 tcacacacaa gtcatg

16

<210> 459  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 459  
 tcacacacaa gtcatg

16

<210> 460  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 460  
 tgtctccatt ctctca

16

<210> 461  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 461  
 tgtctccatt ctctca

16

<210> 462  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 462  
tgtctccatt ctctca 16

<210> 463  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 463  
tgtctccatt ctctca 16

<210> 464  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 464  
gaggagccag ggactc 16

<210> 465  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>

<221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 465  
 gaggagccag ggactc

16

<210> 466  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 466  
 gaggagccag ggactc

16

<210> 467  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 467  
gaggagccag ggactc

16

<210> 468  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 468  
atgttgtaa acagta

16

<210> 469  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 469  
atgttgtaa acagta

16



<210> 470  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 470  
 atgttggttaa acagta

16

<210> 471  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 471  
 atgttggttaa acagta

16

<210> 472  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 472  
 acaaaataag aaagcc

16

<210> 473  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 473  
 acaaaataag aaagcc

16

<210> 474  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 474  
 acaaaataag aaagcc

16

<210> 475  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 475  
 acaaaataag aaagcc

16

<210> 476  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 476  
 tgaattaaca attcaa

16

```

<210> 477
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

```

```

<400> 477
tgaattaaca attcaa

```

16

```

<210> 478
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

```

```

<400> 478
tgaattaaca attcaa

```

16

```

<210> 479
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 479  
 tgaattaaca attcaa

16

<210> 480  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 480  
 agtttgtgct attctg

16

<210> 481  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 481  
 agtttgtgct attctg

16

<210> 482  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 482  
 agtttgtgct attctg

16

<210> 483  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 483  
 agtttgtgct attctg

16

```

<210> 484
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

```

```

<400> 484
gcttagtttt aattgt

```

16

```

<210> 485
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

```

```

<400> 485
gcttagtttt aattgt

```

16

```

<210> 486
<211> 16

```

```

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 486
gcttagtttt aattgt

```

16

```

<210> 487
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 487
gcttagtttt aattgt

```

16

```

<210> 488
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base

```



<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 488  
 cttagaatgg ctttgt

16

<210> 489  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 489  
 cttagaatgg ctttgt

16

<210> 490  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 490  
 cttagaatgg ctttgt

16

<210> 491  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 491  
 cttagaatgg ctttgt

16

<210> 492  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 492  
 cccgtttccc caatga

16

<210> 493  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 493
cccgtttccc caatga

```

16

```

<210> 494
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 494
cccgtttccc caatga

```

16

```

<210> 495
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 495  
 cccgtttccc caatga

16

<210> 496  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 496  
 tccacctgaa gtccac

16

<210> 497  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 497  
 tccacctgaa gttcac

16

<210> 498  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 498  
 tccacctgaa gttcac

16

<210> 499  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 499  
 tccacctgaa gttcac

16

<210> 500  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 500
ctattctgtc tcctca

```

16

```

<210> 501
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 501
ctattctgtc tcctca

```

16

```

<210> 502
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 502  
 ctattctgtc tcctca

16

<210> 503  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 503  
 ctattctgtc tcctca

16

<210> 504  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 504  
 gacgcttcct atcact

16

<210> 505  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 505  
 gacgcttcct atcact

16

<210> 506  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage



```

<400> 506
gacgcttcct atcact
16

<210> 507
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 507
gacgcttcct atcact
16

<210> 508
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 508
aaaggagtat ctgcca
16

<210> 509
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 509  
 aaaggagtat ctgcca

16

<210> 510  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 510  
 aaaggagtat ctgcca

16

<210> 511  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 511  
 aaaggagtat ctgccca

16

<210> 512  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 512  
 tcacacagca gtggca

16

<210> 513  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 513  
tcacacagca gtggca

16

<210> 514  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 514  
tcacacagca gtggca

16

<210> 515  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 515  
tcacacagca gtggca

16

<210> 516  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 516  
 cactgggcct gtctaa

16

<210> 517  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 517  
 cactgggcct gtctaa

16

<210> 518  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 518  
 cactgggcct gtctaa

16

<210> 519  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 519  
 cactgggcct gtctaa

16

<210> 520  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 520  
catgtgcccc gcggt

16

<210> 521  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 521  
catgtgcccc gcggt

16

<210> 522  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage  
  
<400> 522  
catgtgcccc gcggt

16

<210> 523  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 523  
 catgtgcccc gcggct

16

<210> 524  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 524  
 agggaggagc ggccag

16

<210> 525  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base



<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 525  
 agggaggagc ggccag

16

<210> 526  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 526  
 agggaggagc ggccag

16

<210> 527  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 527  
 agggaggagc ggccag

16

```

<210> 528
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 528
ccactgcctt tttctg

```

16

```

<210> 529
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 529
ccactgcctt tttctg

```

16

```

<210> 530
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 530
ccactgcctt tttctg

```

16

```

<210> 531
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 531
ccactgcctt tttctg

```

16

```

<210> 532
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

```

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 532  
 ttaaaaagga tttagg

16

<210> 533  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 533  
 ttaaaaagga tttagg

16

<210> 534  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 534  
 ttaaaaagga tttagg

16

<210> 535  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 535  
 ttaaaaagga tttagg

16

<210> 536  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 536  
 catcgagcca agtcat

16

<210> 537  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 537  
 catcgagcca agtcat

16

<210> 538  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 538  
 catcgagcca agtcat

16

<210> 539  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 539  
 catcgagcca agtcat

16

<210> 540  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 540  
 agccagtccc ccacag

16

<210> 541  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 541  
 agccagtccc ccacag

16

<210> 542  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 542  
 agccagtccc ccacag

16

<210> 543  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 543  
 agccagtccc ccacag

16



<210> 544  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 544  
 cggcctgcag cagccc

16

<210> 545  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 545  
 cggcctgcag cagccc

16

<210> 546  
 <211> 16

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 546  
 cggcctgcag cagccc

16

<210> 547  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 547  
 cggcctgcag cagccc

16

<210> 548  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 548  
 tgggctgaca gacaca

16

<210> 549  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 549  
 tgggctgaca gacaca

16

<210> 550  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 550  
 tgggctgaca gacaca 16

<210> 551  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 551  
 tgggctgaca gacaca 16

<210> 552  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 552  
 tgacagatgt gaaggt 16

<210> 553  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 553
tgacagatgt gaaggt

```

16

```

<210> 554
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 554
tgacagatgt gaaggt

```

16

```

<210> 555
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 555  
 tgacagatgt gaaggt

16

<210> 556  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 556  
 ccccggtgtgg agaacg

16

<210> 557  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 557  
 ccccggtgtgg agaacg

16

<210> 558  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 558  
 ccccggtgtgg agaacg

16

<210> 559  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 559  
 ccccggtgtgg agaacg

16

<210> 560  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D'-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 560
gcggactgcg tctctc

```

16

```

<210> 561
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 561
gcggactgcg tctctc

```

16

```

<210> 562
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```



<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 562  
 gcggactgcg tctctc

16

<210> 563  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 563  
 gcggactgcg tctctc

16

<210> 564  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 564  
 gaaagcgggg acctgg

16

<210> 565  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 565  
 gaaagcgggg acctgg

16

<210> 566  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 566  
gaaagcgggg acctgg 16

<210> 567  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 567  
gaaagcgggg acctgg 16

<210> 568  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 568  
agctgctgcc tccaaa 16

<210> 569  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 569  
 agctgctgcc tccaaa

16

<210> 570  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 570  
 agctgctgcc tccaaa

16

<210> 571  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 571  
 agctgctgcc tccaaa

16

<210> 572  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 572  
 acttcagccc tgcggg

16

<210> 573  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 573  
acttcagccc tgcggg

16

<210> 574  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 574  
acttcagccc tgcggg

16

<210> 575  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 575  
acttcagccc tgcggg

16

<210> 576  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 576  
 catcatctta cgccag

16

<210> 577  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 577  
 catcatctta cgccag

16

<210> 578  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 578  
 catcatctta cgccag

16

<210> 579  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 579  
 catcatctta cgccag

16

<210> 580  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage



<400> 580  
gagggcgaat caaatc

16

<210> 581  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 581  
gagggcgaat caaatc

16

<210> 582  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 582  
gagggcgaat caaatc

16

<210> 583  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 583  
 gagggcgaat caaatc

16

<210> 584  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 584  
 gctctatgac agggag

16

<210> 585  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 585  
 gctctatgac agggag

16

<210> 586  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 586  
 gctctatgac agggag

16

<210> 587  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 587  
gctctatgac agggag

16

<210> 588  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 588  
aacaatccac cctgca

16

<210> 589  
<211> 16  
<212> DNA  
<213> Artificial sequence  
  
<220>  
<223> Synthetic oligonucleotide  
  
<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base  
  
<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage  
  
<400> 589  
aacaatccac cctgca

16

<210> 590  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 590  
 aacaatccac cctgca

16

<210> 591  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 591  
 aacaatccac cctgca

16

<210> 592  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 592  
 tttccagcga agctgt

16

<210> 593  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 593  
 tttccagcga agctgt

16

<210> 594  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 594  
 tttccagcga agctgt

16

<210> 595  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 595  
 tttccagcga agctgt

16

<210> 596  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 596  
 agatgacctc cagagg

16

```

<210> 597
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 597
agatgacctc cagagg

```

16

```

<210> 598
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 598
agatgacctc cagagg

```

16

```

<210> 599
<211> 16

```



<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 599  
 agatgacctc cagagg

16

<210> 600  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 600  
 ttctcaggaa cagccg

16

<210> 601  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 601  
 ttctcaggaa cagccg

16

<210> 602  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 602  
 ttctcaggaa cagccg

16

<210> 603  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 603  
 ttctcaggaa cagccg

16

```

<210> 604
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 604
atgacaggct ttttat

```

16

```

<210> 605
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 605
atgacaggct ttttat

```

16

```

<210> 606
<211> 16

```

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 606  
 atgacaggct ttttat

16

<210> 607  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 607  
 atgacaggct ttttat

16

<210> 608  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 608  
 aggcaggggg caacgt

16

<210> 609  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 609  
 aggcaggggg caacgt

16

<210> 610  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 610  
 aggcaggggg caacgt

16

<210> 611  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 611  
 aggcaggggg caacgt

16

<210> 612  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 612  
 ccaagaaggg ccagtt

16

<210> 613  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 613
ccaagaaggg ccagtt

```

16

```

<210> 614
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 614
ccaagaaggg ccagtt

```

16

```

<210> 615
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 615  
 ccaagaaggg ccagtt

16

<210> 616  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 616  
 tggctcggttc tcagtg

16

<210> 617  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature



<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 617  
 tggctcggttc tcagtg

16

<210> 618  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 618  
 tggctcggttc tcagtg

16

<210> 619  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 619  
 tggctcggttc tcagtg

16

<210> 620  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 620
gtctggctcg ttctca

```

16

```

<210> 621
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 621
gtctggctcg ttctca

```

16

```

<210> 622
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 622  
 gtctggctcg ttctca

16

<210> 623  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 623  
 gtctggctcg ttctca

16

<210> 624  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 624  
agtctggctc gttctc

16

<210> 625  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 625  
agtctggctc gttctc

16

<210> 626  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 626  
agtcctggctc gttctc

16

<210> 627  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 627  
agtcctggctc gttctc

16

<210> 628  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 628  
tggatgaagc cagcct

16

<210> 629  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 629  
 tggatgaagc cagcct

16

<210> 630  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 630  
 tggatgaagc cagcct

16

<210> 631  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 631  
 tggatgaagc cagcct

16

<210> 632  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 632  
 agcagaagaa acactg

16

<210> 633  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 633  
agcagaagaa acactg

16

<210> 634  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 634  
agcagaagaa acactg

16

<210> 635  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 635  
agcagaagaa acactg

16

<210> 636  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide



<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 636  
 tcctctatgg ggtcgt

16

<210> 637  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 637  
 tcctctatgg ggtcgt

16

<210> 638  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base

<222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 638  
 tcctctatgg ggtcgt

16

<210> 639  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 639  
 tcctctatgg ggtcgt

16

<210> 640  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 640  
gcaaccggac gaatgc

16

<210> 641  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(15)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 641  
gcaaccggac gaatgc

16

<210> 642  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (5)..(13)  
<223> phosphorthioate linkage

<400> 642  
gcaaccggac gaatgc

16

<210> 643  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 643  
 gcaaccggac gaatgc

16

<210> 644  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 644  
 ttatgttcct ctatgg

16

<210> 645  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 645  
 ttatgttcct ctatgg

16

<210> 646  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 646  
 ttatgttcct ctatgg

16

<210> 647  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 647  
 ttatgttcct ctatgg

16

```

<210> 648
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 648
gggtaattct tcaaac

```

16

```

<210> 649
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 649
gggtaattct tcaaac

```

16

<210> 650  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 650  
 ggttaattct tcaaac

16

<210> 651  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 651  
 ggttaattct tcaaac

16

<210> 652  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 652  
 ctctgtccag tttcaa

16

<210> 653  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 653  
 ctctgtccag tttcaa

16

<210> 654  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base



<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 654  
 ctctgtccag tttcaa

16

<210> 655  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 655  
 ctctgtccag tttcaa

16

<210> 656  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 656  
 gcaattttgt tcttgg

16

```

<210> 657
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 657
gcaattttgt tcttgg

```

16

```

<210> 658
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 658
gcaattttgt tcttgg

```

16

```

<210> 659
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 659  
 gcaattttgt tcttgg

16

<210> 660  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 660  
 ctcaatccat ggcagc

16

<210> 661  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 661  
 ctcaatccat ggcagc

16

<210> 662  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 662  
 ctcaatccat ggcagc

16

<210> 663  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 663  
 ctcaatccat ggcagc

16

```

<210> 664
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 664
ccagcctcgg ccatcc

```

16

```

<210> 665
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 665
ccagcctcgg ccatcc

```

16

```

<210> 666
<211> 16

```

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 666  
 ccagcctcgg ccatcc

16

<210> 667  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 667  
 ccagcctcgg ccatcc

16

<210> 668  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base

<222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 668  
 tgtccagttt caaaaa

16

<210> 669  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 669  
 tgtccagttt caaaaa

16

<210> 670  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 670  
 tgtccagttt caaaaa

16

<210> 671  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 671  
 tgtccagttt caaaaa

16

<210> 672  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 672  
 ctgtccagtt tcaaaa

16

<210> 673  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence



```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 673
ctgtccagtt tcaaaa

```

16

```

<210> 674
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 674
ctgtccagtt tcaaaa

```

16

```

<210> 675
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 675  
 ctgtccagtt tcaaaa

16

<210> 676  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 676  
 tcggggcacc catgcc

16

<210> 677  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 677  
 tcggggcacc catgcc

16

<210> 678  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 678  
 tcggggcacc catgcc

16

<210> 679  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 679  
 tcggggcacc catgcc

16

<210> 680  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 680
atggcagcca gctgct

```

16

```

<210> 681
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 681
atggcagcca gctgct

```

16

```

<210> 682
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 682  
 atggcagcca gctgct

16

<210> 683  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 683  
 atggcagcca gctgct

16

<210> 684  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 684  
 agaggcctca atccat

16

<210> 685  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 685  
 agaggcctca atccat

16

<210> 686  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 686  
agaggcctca atccat

16

<210> 687  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 687  
agaggcctca atccat

16

<210> 688  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> modified\_base  
<222> (1)..(4)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> modified\_base  
<222> (13)..(16)  
<223> beta-D-oxy-LNA modified base

<220>  
<221> misc\_feature  
<222> (1)..(16)  
<223> phosphorthioate linkage

<400> 688  
gggcaacgtc ggggca

16

<210> 689  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 689  
 gggcaacgtc ggggca

16

<210> 690  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 690  
 gggcaacgtc ggggca

16

<210> 691  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature



<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 691  
 gggcaacgtc ggggca

16

<210> 692  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 692  
 tgccaggcag ggggca

16

<210> 693

<400> 693  
 000

<210> 694  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 694  
 tgccaggcag ggggca

16

<210> 695  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 695  
 tgccaggcag ggggca

16

<210> 696  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 696  
 ccggggtgca ggcgca

16

<210> 697  
 <211> 16

<212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage  
  
 <400> 697  
 ccggggtgca ggcgca

16

<210> 698  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Synthetic oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base  
  
 <220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage  
  
 <400> 698  
 ccggggtgca ggcgca

16

<210> 699  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 699  
 ccggggtgca ggcgca

16

<210> 700  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 700  
 catccgctcc ggggtg

16

<210> 701  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 701  
 catccgctcc ggggtg

16

<210> 702  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 702  
 catccgctcc ggggtg

16

<210> 703  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 703  
 catccgctcc ggggtg

16

<210> 704  
 <211> 16

<212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified 3ba16e

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 704  
 gtggggcagt ggatga

16

<210> 705  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 705  
 gtggggcagt ggatga

16

<210> 706  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 706  
 gtggggcagt ggatga

16

<210> 707  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 707  
 gtggggcagt ggatga

16

<210> 708  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 708  
 cctctatggg gtcgtc

16

<210> 709  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 709  
 cctctatggg gtcggt

16

<210> 710  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature



<222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 710  
 cctctatggg gtcgtc

16

<210> 711  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 711  
 cctctatggg gtcgtc

16

<210> 712  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 712  
 atgcttttta tggtcc

16

<210> 713  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(15)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 713
atgcttttta tgttct

```

16

```

<210> 714
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 714
atgcttttta tgttcc

```

16

```

<210> 715
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 715  
 atgcttttta tgttcc

16

<210> 716  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 716  
 gtttcctttg caattt

16

<210> 717  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(15)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 717  
 gtttcctttg caattt

16

<210> 718  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 718  
 gtttcctttg caattt

16

<210> 719  
 <211> 16  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 719  
 gtttcctttg caattt

16

<210> 720  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

```

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (1)..(16)
<223> phosphorthioate linkage

<400> 720
tgtgctattc tgtgaatt

```

18

```

<210> 721
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> beta-D-oxy-LNA modified base

<220>
<221> modified_base
<222> (13)..(16)
<223> beta-D-oxy-LNA modified base

<220>
<221> misc_feature
<222> (5)..(13)
<223> phosphorthioate linkage

<400> 721
tgtgctattc tgtgaatt

```

18

```

<210> 722
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

```

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 722  
 tgtgctattc tgtgaatt

18

<210> 723  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 723  
 tgtgctattc tgtgaatt

18

<210> 724  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature

<222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 724  
 taagctgttc tatgtgtt

18

<210> 725  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (5)..(13)  
 <223> phosphorthioate linkage

<400> 725  
 taagctgttc tatgtgtt

18

<210> 726  
 <211> 18  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> modified\_base  
 <222> (1)..(4)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> modified\_base  
 <222> (13)..(16)  
 <223> beta-D-oxy-LNA modified base

<220>  
 <221> misc\_feature  
 <222> (1)..(16)  
 <223> phosphorthioate linkage

<400> 726  
taagctgttc tatgtgtt 18

<210> 727  
<211> 19  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 727  
caggtcccg ctttctttg 19

<210> 728  
<211> 18  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 728  
ggaggagggc gaatcaaa 18

<210> 729  
<211> 26  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Probe

<400> 729  
ccatcatctt acgccagact tcagcc 26

<210> 730  
<211> 21  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 730  
aaggaccacc gcatctctac a 21

<210> 731  
<211> 22  
<212> DNA  
<213> Artificial sequence



<220>  
 <223> Primer

<400> 731  
 ccaagtctgg ctcgttctca gt 22

<210> 732  
 <211> 23  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Probe

<400> 732  
 cgaggctggc ttcattccact gcc 23

<210> 733  
 <211> 21  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Primer

<400> 733  
 aaggctgtgg gcaagggtcat c 21

<210> 734  
 <211> 23  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Primer

<400> 734  
 gtcagatcca cgacggacac att 23

<210> 735  
 <211> 34  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Probe

<400> 735  
 gaagctcact ggcattggcat ggccttccgt gtcc 34

<210> 736  
 <211> 25

<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 736  
agcacaaagc cattctaagt cattg

25

<210> 737  
<211> 23  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 737  
tccatcatct tacgccagac ttc

23

<210> 738  
<211> 16  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Probe

<400> 738  
gatgtttcga tgtttc

16

<210> 739  
<211> 18  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 739  
aacggatttg gtcgtatt

18

<210> 740  
<211> 18  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer

<400> 740  
taagcagttg gtggtgca

18

<210> 741

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> poly-T oligonucleotide

<220>

<223> this sequence may encompass 12-18 nucleotides according to the  
specification as filed

<400> 741

tttttttttt tttttttt

18